Bruhat Bangalore Mahanagara Palike
Excecutive Engineer Dasarahalli Division

Name of Work:Improvements and Asphalting to Saptagiri College Main and adjacent Cross roads in ward No 12, Shettyhalli Sub Division

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Civil Work								
1	KSRRB 300-1. **Earthwork excavation by manual means for roads,** drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications 10km lead= 57+2.0x1.28x10 =82.60								
	CC Drain								
	Sapthagiri College Road	1	198.00	1.20	0.90	213.84			
		1	69.00	1.50	1.20	124.20			
	RHS 2nd Crs Sapthagiri Main	1	97.00	1.20	0.90	104.76			
	RHS 3rd Crs Sapthagiri Main	2	120.00	1.20	0.90	259.20			
	RHS 4th Crss frm Sapthagiri Main	2	120.00	1.20	0.90	259.20			
	Cross Road-1 frm 4th Cross	2	33.50	1.20	0.90	72.36			
	Cross Road-2 frm 4th Cross	2	32.50	1.20	0.90	70.20			
	LHS 4th Crss frm Sapthagiri Main	1	230.00	1.20	0.90	248.40			
						1352.16	**Cum**	**220.40**	**298016.06**
2	KSRRB M2100-10. Providing and laying **Plain cement concrete of mix 1:3:6** with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. (P.No-222,I No-27.18)								
	CC Drain								
	Sapthagiri College Road	1	198.00	1.20	0.15	35.64			
		1	69.00	1.50	0.15	15.53			
	RHS 2nd Crs Sapthagiri Main	1	97.00	1.20	0.15	17.46			
	RHS 3rd Crs Sapthagiri Main	2	120.00	1.20	0.15	43.20			
	RHS 4th Crss frm Sapthagiri Main	2	120.00	1.20	0.15	43.20			
	Cross Road-1 frm 4th Cross	2	33.50	1.20	0.15	12.06			
	Cross Road-2 frm 4th Cross	2	32.50	1.20	0.15	11.70			
	LHS 4th Crss frm Sapthagiri Main	1	230.00	1.20	0.15	41.40			
						220.19	**Cum**	**5421.90**	**1193821.05**

Sl	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
3	Providing and laying **plain/reinforced cement concrete for side drains using M20** nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specificationsdo- Wall & bottom thickness 15cm (I No-37.59.2,P No-271)								
	CC Drain								
	Sapthagiri College Road	1	198.00	0.90	0.15	26.73			
		1	69.00	1.20	0.15	12.42			
	RHS 2nd Crs Sapthagiri Main	1	97.00	0.90	0.15	13.10			
	RHS 3rd Crs Sapthagiri Main	2	120.00	0.90	0.15	32.40			
	RHS 4th Crss frm Sapthagiri Main	2	120.00	0.90	0.15	32.40			
	Cross Road-1 frm 4th Cross	2	33.50	0.90	0.15	9.05			
	Cross Road-2 frm 4th Cross	2	32.50	0.90	0.15	8.78			
	LHS 4th Crss frm Sapthagiri Main	1	230.00	0.90	0.15	31.05			
	CC Drain Wall								
	Sapthagiri College Road	2	198.00	0.15	0.60	35.64			
		2	69.00	0.15	1.20	24.84			
	RHS 2nd Crs Sapthagiri Main	2	97.00	0.15	0.60	17.46			
	RHS 3rd Crs Sapthagiri Main	4	120.00	0.15	0.60	43.20			
	RHS 4th Crss frm Sapthagiri Main	4	120.00	0.15	0.60	43.20			
	Cross Road-1 frm 4th Cross	4	33.50	0.15	0.60	12.06			
	Cross Road-2 frm 4th Cross	4	32.50	0.15	0.60	11.70			
	LHS 4th Crss frm Sapthagiri Main	2	230.00	0.15	0.60	41.40			
						395.42	**Cum**	**7070.20**	**2795663.13**
4	KSRB 4.9.2 : Providing **T.M.T steel reinforcement** for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specifications. Specificatio(I No-28.8.2,P No-229)								
	Consider 75kg/Cum	1	395.42	75.00		**29656.13**			
						29.66	**Tn**	**72326.98**	**2144937.96**
5	Providing and Fixing **pre cast covering Slab** made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete. (Data Rate)								

Sl	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	CC Drain								
	Sapthagiri College Road	1	198.00	0.90		178.20			
		1	69.00	1.20		82.80			
	RHS 2nd Crs Sapthagiri Main	1	97.00	0.90		87.30			
	RHS 3rd Crs Sapthagiri Main	2	120.00	0.90		216.00			
	RHS 4th Crss frm Sapthagiri Main	2	120.00	0.90		216.00			
	Cross Road-1 frm 4th Cross	2	33.50	0.90		60.30			
	Cross Road-2 frm 4th Cross	2	32.50	0.90		58.50			
	LHS 4th Crss frm Sapthagiri Main	1	230.00	0.90		207.00			
						1106.10	**Sqm**	**2208.00**	**2442268.80**
6	KSRRB M300-14. **Excavation for roadwork in all types of soil** by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301Loading and unloading with 10km lead= (I No-19.14,P No-143)								
	Sapthagiri College Road								
	Ch:0.00m to 843.00m	1	843.00	6.75	0.250	1422.56			
						1422.56	**Cum**	**69.06**	**98,242.17**
7	KSRRB 300-58. **Compaction of original ground** by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications (I No-19.64,P No-147)								
	Sapthagiri College Road								
	Ch:0.00m to 843.00m	1	843.00	6.75		5690.25			
						5690.25	**Sqm**	**6.36**	**36,189.99**
8	Construction of **granular sub-base Grading-V** as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications Clause 401 of MORTH V Revision.(I No-20.5,P No-153)								
	Sapthagiri College Road								
	Ch:0.00m to 843.00m	1	843.00	6.75	0.15	853.54			
						853.54	**Cum**	**1994.92**	**1702739.03**
9	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to **wet mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications(P.No-155,I No-20.18)								
	Sapthagiri College Road								
	Ch:0.00m to 843.00m	1	843.00	6.75	0.23	1280.31			
						1280.31	**Cum**	**2001.28**	**2562251.29**

Sl	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
10	KSRRB M500-6. Providing and applying **primer coat** with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications Clause 502 of MORTH V revision(P.No-158,I No-21.6)								
	Sapthagiri College Road								
	Ch:0.00m to 843.00m	1	843.00	6.75		5690.25			
						5690.25	**Sqm**	**29.68**	**168886.62**
11	KSRRB 500-7. Providing and **applying tack coat** using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications (P.No-161,I No-21.7)								
	Sapthagiri College Road								
	Ch:0.00m to 843.00m	1	843.00	6.75		5690.25			
						5690.25	**Sqm**	**12.72**	**72,379.98**
12	KSRRB M500-17. Providing and laying **dense graded bituminous macadam** using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No-160,I No-21.17.6)								
	Sapthagiri College Road								
	Ch:0.00m to 843.00m	1	843.00	6.75	0.05	284.51			
						284.51	**Cum**	**6858.20**	**1951243.63**
13	KSRRB M500-19. Providing and laying **bituminous concrete** using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 507 of MORTH V revision using40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 45 mm) with 5.4% VG-30 Bitumen(P.No-162,I No-21.22.6)								
	Sapthagiri College Road								
	Ch:0.00m to 843.00m	1	843.00	6.75	0.03	170.71			
						170.71	**Cum**	**7911.84**	**1350610.43**
14	KSRRB M800-13.**Road Marking with Hot Applied Thermoplastic Compound** with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803(P.No-182,I No-24.15)								
	Sapthagiri College Road								
	Ch:0.00m to 843.00m	2	843.00	0.10		168.60			
						168.60	**Sqm**	**454.74**	**76,669.16**
								Total Construction Cost	**16893919.30**
								Towards GST 12%	**2027270.32**
								Towards KRIDL Charges 4.5%	**760226.37**
								DPR & PMC Cost	**317000.00**

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	19998415.99								
								Sub Total	19996286.11
	1584.01								
								Utility Shifting,Miscellaneous and Rounding off	3,713.89
								GRAND TOTAL	20000000.00

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2016-2017.and Data Rates

SILICON CONSULTING ENGINEERS K.R

Assistant Engineer
Ward No-12
BBMP Bangalore

Asst. Executive Engineer,
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BBMP Bangalore

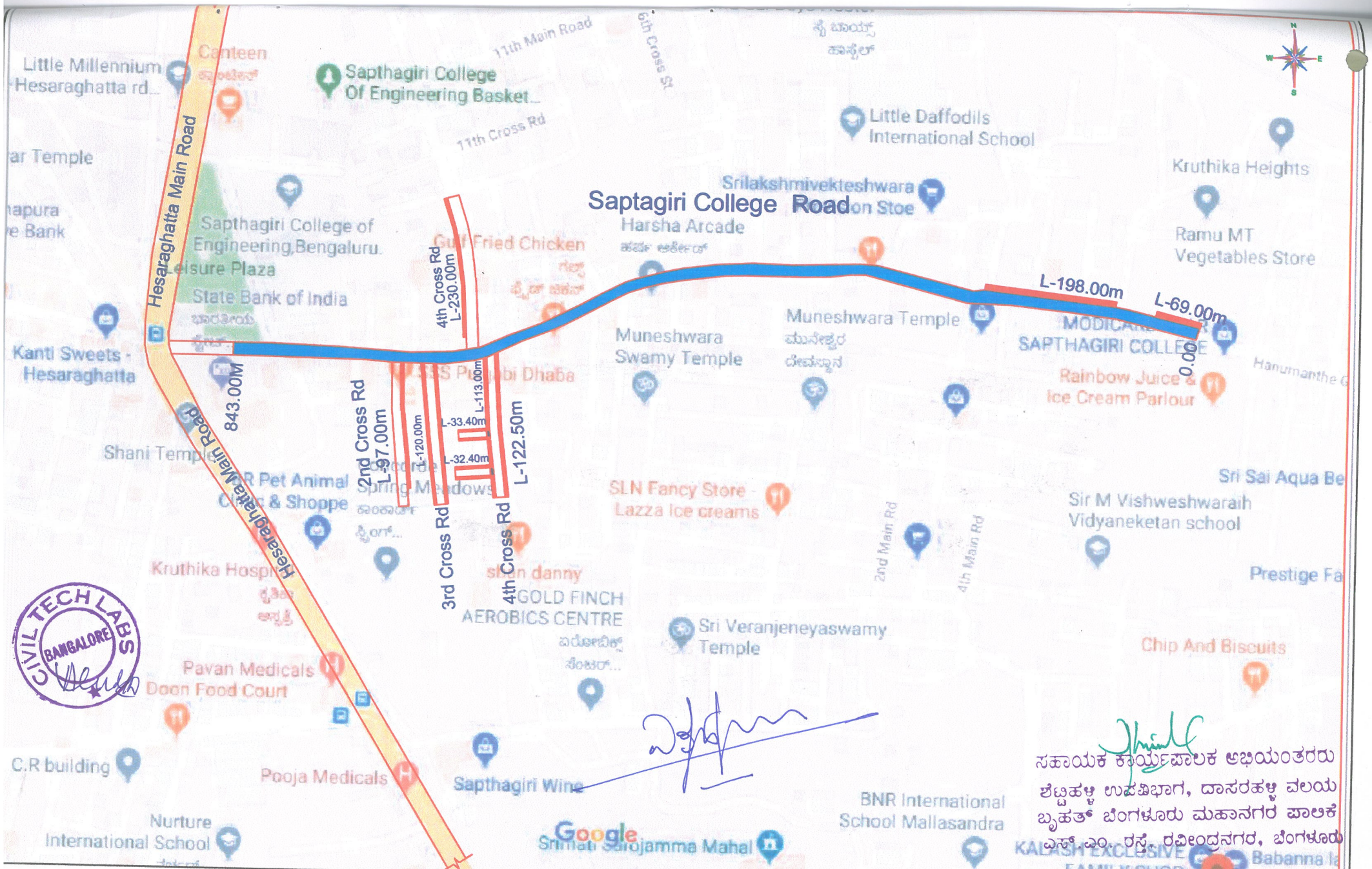
Executive Engineer,
Dasarahalli Division
BBMP Bangalore

ನಂ. BBMP/EE/AS/TS/ ದಿನಾಂಕ : 20.02.2019
18-19.
ರೂ. 20000000=00 (Two Hundred Lakhs only)
ಅಂದಾಜು ಪಟ್ಟಿಗೆ ಆಡಳಿತಾತ್ಮಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.

ನಂ. CE/D2/TS/1911/18-19 ದಿನಾಂಕ : 22/02/2019
ರೂ. 200.00 Lakhs/- (Rs Two Hundred Lakhs only)
ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ.

ತಾಂತ್ರಿಕ ಸಹಾಯಕರು
ಮುಖ್ಯ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ.
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.



CIVIL TECH LABS BANGALORE

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

LIENT:	PROJECT	Dwg Title:	
BRUHAT BANGALORE MAHANAGARA PALIKE	Improvements and Asphalting to Saptagiri College Main and adjacent Cross roads in ward No 12, Shettyhalli Sub Division	PLAN	CC Drain ASPHALT ROAD